# 229-925X1 Approved For Release 2005/11/21: CIA-RDP78B05171A000500020091-3 Copy No. December 10, 1970 ACTIVITY SUMMARY John C. TO: 25**X**1 From: Activity Summary Subject: Facility Visit, Contract 2201201-AS-22 25X1 Reference: 8, 9 December 1970 Dates: visited the On 8,9 December 1970, 25X1 The objective of this sponsors facility under Contract 25X1 trip was to repeat previous experiments in high frequency enhancement of a particular target using another dupe positive print of This task was performed to illustrate that the the ON material. information obtained is not a function of the duping process but This objective was met is information present on the ON material. on 8 December when results were photographed and prints were made illustrating information similar to that obtained from the initial experiments in mid-November. There are several points to mention concerning the exercises performed on 8,9 December. One reason for the effort required to repeat the results with high frequency enhancement was the variability in the dupe positive image quality. The first conclusions obtained on the morning of 8 December was that the granularity, average density and contrast of the Declassification Review original dupe positive DP #1, was not by NGA/DoD We therefore requested repeated. additional dupe positives under set

**GROUP 1** 

DCWNGRADING AND DECLASSIFICATION

notebook. Although DP #1 quality or Release 2005/14/21 CIA-RDP78B05171A000500020091-3

specifications as noted in the lab

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was not exactly repeated, we extracted the information from a dupe of this set the afternoon of 8 December.

2) A not insignificant point to illustrate is that the operation has been performed by various technical persons.

was introduced to the system that morning and was able to obtain results that day.

This means that system operation is a defined and repeatable process.

Based upon the above results we can conclude that repeatability of the optical process is a concluded fact, that the information extracted is real, and that the output can be repeated as required provided that dupe quality for the low contrast information can be maintained.

A briefing on optical image manipulation is planned for presentation at the customers facility on 16 December 1970.

PSC/c Attachment 25X1

SECRET

To John C.

From Subject Program Plan Date 9 Dec., 1970

During this visit we have demonstrated that very low contrast alpha-numeric characters can be obtained from other dupe positive copies. This result was obtained when we obtained DP of comparable grain, contrast and density characteristics. These were not available with previous duped results. Now that we can specify the characteristics needed, and assuming repeatability at the duping lab, then we can perform this demonstration as needed. One of the good results of this approach is that we are now aware of what is required for future dupe outputs of very low contrast information. We should try to specify the duping process with utmost accuracy so that we can always reguest thereoved For Heleasi 206/11/29: CTA-RBP78B08171A00650002069F3 bas is when pursuing high frequency SECRET

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enh camprovedino remaise 2005/11/21: CIA-RDP78B05171A000500020091-3 imagery. Three general objective areas to follow are 1. Prepare for program briefing now sheduled for week of Dec. 14, 1970. z. Use available material, and determine as closely as possible the specifications for duping that best record low contrast information for high frequency enhancement. Réquest more dupes ces necessary to determine what range of input is necessary to ensure that desired, product can be obtained with variables that are introduced in the duping process. Only when this process is proven consistent can a unique spec be obtained. 3. From intermation obtained in # 2 above, obtain, new D.P. for imagery selected two weeks ago. This imagery should 

low contrast information previously undefected. These steps generally outline the remaining tasks that should be performed in the laboratory low contrast enhancement effort. This work is not to stop here but the lab schedule is directed towards coherent processing and complex filters as well. The time schedule for the above three areas is as follows:

Time Schedule Week starting 14 Dec. 21 Dec. 28 Dec. 4 Jan, 11 Ja

Item #1 Program briefing, XXX

#3 Duping of selected targets according to

#2 and processing

and evaluation

I expect that the portion of laboratory support activity in high frequency enhancement, with ampaprived de Release /200311/21: CIR-KOP 28BO \$77 A0005000 2909 Select in a four week time period.